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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/863,139	05/22/2001	Roy F. Quick JR.	010055B1	1058
23696	7590	11/17/2006	EXAMINER	
QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121				MOORTHY, ARAVIND K
		ART UNIT		PAPER NUMBER
		2131		

DATE MAILED: 11/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/863,139	QUICK ET AL.
	Examiner	Art Unit
	Aravind K. Moorthy	2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 August 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-17 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 1-16 is/are allowed.
 6) Claim(s) 17 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 20 August 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____. _____.	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

1. This is in response to the appeal brief filed on 24 August 2006.
2. Claims 1-17 are pending in the application.
3. Claims 1-16 have been allowed.
4. Claim 17 has been rejected.

Response to Arguments

5. In view of the appeal brief filed on 24 August 2006, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claim 17 is rejected under 35 U.S.C. 102(e) as being anticipated by Juopperi U.S.

Patent No. 6,225,888 B1.

As to claim 17, Dahlman et al discloses an apparatus for authenticating a subscriber in a wireless communication system, wherein the apparatus can be communicatively coupled to a mobile station operating within the wireless communications system, comprising:

a memory (i.e. mobile station) [column 6, lines 56-67]; and

a processor (i.e. base station) configured to implement a set of instructions stored in the memory, the set of instructions for selectively generates a primary signature based upon a key (i.e. MBKEY) that is held private from the mobile station and a secondary signature that is received from the mobile station [column 7 line 55 to column 8 line 34].

Allowable Subject Matter**7. Claims 1-16 allowed.**

As to independent claim 1, prior art does not teach or suggest the limitation “concatenating the initial value with a received signal to form an input value, wherein the received signal is transmitted from a communications unit communicatively coupled to the subscriber identification module, and the received signal is generated by the communications unit using a second key from the plurality of keys, the second key having been communicated from the subscriber identification module to the communications unit”. Prior art does teach or suggest the limitation “hashing the input value to form an authentication signal”. Prior art does teach or suggest the limitation “transmitting the authentication signal to the communications system via the communications unit”.

As to independent claim 8, prior art does not teach or suggest the limitation “a signature generator configured to receive a secret key from the key generation element and information from a mobile unit, and further configured to generate a signature that will be sent to the mobile unit, wherein the signature is generated by concatenating the secret key with the information from the mobile unit and hashing the concatenated secret key and information [column 8, lines 32-62].

As to independent claim 11, prior art does not teach or suggest the limitation “a key generator for generating a plurality of keys from a received value and a secret value, wherein at least one communication key from the plurality of keys is delivered to the communications unit and at least one secret key from the plurality of keys is not delivered to the communications unit”. Prior art does teach or suggest the limitation “a

signature generator for generating an authorization signal from hashing a version of the at least one secret key together with an authorization message that the authorization message is generated by the communications unit using a version of the at least one communication key”.

As to independent claim 15, prior art does not teach or suggest the limitation “generating a plurality of keys”. Prior art does teach or suggest the limitation “transmitting at least one key from the plurality of keys to a communications device communicatively coupled to the subscriber identification device and holding private at least one key from the plurality of keys”. Prior art does teach or suggest the limitation “generating a signature at the communications device using both the at least one key transmitted to the communications device and a transmission message, wherein generating is implemented by hashing a concatenated value formed from the at least one key and the transmission message”. Prior art does teach or suggest the limitation “transmitting the signature to the subscriber identification device”. Prior art does teach or suggest the limitation “receiving the signature at the subscriber identification device”. Prior art does teach or suggest the limitation “generating a primary signature from the received signature, wherein the generating is implemented by hashing a concatenated value formed from the at least one private key and the signature received from the communications device”. Prior art does teach or suggest the limitation “conveying the primary signature to a communications system”.

Any claims not directly addressed are allowed on its virtue of dependency.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793. The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aravind K Moorthy
November 13, 2006



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